

The double density newsletter for Heath/Zenith computer support

BITS & PIECES

With the holiday season upon us, both our time and submissions for H-SCOOP have been lacking, thus this will be a short issue. Remember, you get out what you put in!

I hope you didn't panic too much that this issue was late. As is our policy, we try our best not to bog down the U.S. Postal service anymore than they already are during this season. That way they have it a little easier, and we have less H-SCOOP's not delivered! We always mail the January issue of the New Year during the first week of January. The rest of the year we mail them on the last week in the month.

If submissions continue to be low, I may change the format of this newsletter. I was thinking more on an advice, tips, H/Z problems, fixes, new H/Z stuff, H/Z peculiarities, users reports (paid?), etc. Let me know your feedback on that. Some examples are in this section on MNP modems, head parking, and the H/Z compatibility. Would you like to see more of this type of thing?

I realize the Z100 folks and the H8/H89 folks have not seen much. I have looked over 1989's H-SCOOP's and have found a good amount of info contained therein, considering that not much is going on out there anymore with vendors and such. But unfortunately, people have problems and fix them, and don't bother to share that with us anymore like they used to. We are always finding problems and fixes here, and weird things, but I too am guilty. I get so busy researching, solving, talking on the phone, ad infinitum, that I don't often record things and even forget to write about them. It's a busy world.

I do want to take this space to wish you a very happy new year and hope you've had a merry Christmas season.

JE PUBLISHERS RENEGE!

After months of trying to get all of our prepaid advertising money back from J. E. Publishers Rep (the company that handled the now defunct SEXTANT account), for advertising that never appeared in the SEXTANT's which never were published, I just received a letter from Jay Eisenberg, President of J E Publishers Representative. After Charlie disappeared owing everyone money, we were told both by Charlie and by the folks at JE, that J E Publishers held the advertisers money until the issue came out. Going on that, we received one check for a full page advertising. When we attempted to obtain the remainder of our "unused" advertiser money, we went back and forth with JE for several months. They always promised to return our calls, and never did. They promised to look into the matter for us, and nothing ever happened.

Well, after JE promised to get all our refunds to us, Jay Eisenberg must have decided that he wanted more Christmas money in his pocket for himself, and he sent us this letter:

"With regards to the refund you requested for the ad prepaid in SEXTANT; you may contact the publisher directly, although they are no longer in business. Your refund will be paid through their offices." Yea, right!

Advertisers be warned how J E Publishers, i.e. Jay Eisenberg operates. I would strongly advise everyone, that at all costs to

avoid any contact with this firm. After I received the letter I spoke to Jay on the phone, and he said we could do whatever we wanted, including suing him, he was not going to give us our money back.

I'm presently deciding if it's worth suing Jay.

MNP MODEMS

We are hearing a lot about MNP class modems nowadays. Microcom Networking Protocol is a recent development that improves modem communications increasing transmission reliability and speed. It will no doubt become the new standard.

In any modem transmission data is checked for errors. The more often data is checked for errors, the longer the transmission will take. MNP speeds data transfer by increasing the data sent between data checks and making adjustments when increased checks slow transmission. There are nine MNP classes, and each increase in Class designation means improved performance.

With Class 4 MNP, the modem adjusts the amount of data between checks, improving transmission efficiency on high-quality phone lines up to 120%. On lower-quality lines, MNP sends smaller packets of data between checks, and thus operates slower. There is still a definite improvement over other protocols used. MNP Class 5 boosts transmission up to 200% by adding data compression to the features of Class 4.

The MNP modems also detect if the receiving modem has MNP and what class is supported. If MNP is not present, the sending modem uses standard protocol automatically.

The last item worth mentioning, is MNP can be implemented via hardware or software. Obviously, hardware is best and fastest. If done in software, it will be slower because of the software overhead.

Most of this information was taken from the On Line Everex Dealer Newsletter, volume 1, issue 2.

HARD DRIVE HEAD PARKING

There has always been an issue on the parking of hard disk heads. Should one do it at all? When should it be done?

Although it has been said by some that you should always park the heads of hard drives before turning off the computer, I disagree with that statement. The theory is that when the system is turned off, the heads may be over some crucial data area, or even worse and more probable, over the directory (FAT) area. There are small currents induced in the heads when the power is turned off, and that can cause weakening of the data on the area over which the heads reside. If parking the heads first, they will be over free areas and this problem will not occur.

I have never parked my hard drive heads in the 10 years I have used hard drives and have never had a problem because of this.

According to the Everex folks, if you have a drive with self-parking heads, which most are nowadays, you can be headed for problems. They say "If your drive is self-parking, the heads are moved away from the platters at power off. Using a head park routine may move the heads back over the platter. On some hard drives, the mechanism could lock permanently and ruin the drive."

The only time I feel it is necessary to park (or ship) the heads is when you plan to transport the system, such as with laptops and moving your computers around. And then, I still would not do it with self-parking drives.

Z151 & HARDWARE/SOFTWARE CONFLICT

Robert Hawkins writes: A report on apparent software (/hardware?) conflicts involving H/Z computers: I have a Heath HS-151 with Wildfire speed kit and 704K RAM, Monitor ROM 3.0B, and Zenith MS-DOS 3.3+. Recently I upgraded to Microsoft Word 5.0 and found that it was incompatible with my version (1.10A) of Borland's Superkey. I then also upgraded to Borland's Reflex 2.0 database and ordered the latest version of both Superkey and Sidekick. WORD 5.0 now works very well with the new Superkey and Sidekick, but amazingly, Reflex 2.0 will not work with the new version (1.16a) of Superkey, or the latest (1.58a) Sidekick on my machine! Borland hasn't a clue as to why.

I have tried disabling Superkey without removing it from memory, with no success. I can boot from a bare DOS 3.3+ disk, without TSR programs and the simplest CONFIG.SYS files, and Reflex 2.0 works fine. Add Cruise Control - it still works fine. Load Superkey, however, and the system hangs up at the opening Reflex menu. Load Sidekick, and Reflex 2.0 won't even start.

Version 1.0 of Reflex does not exhibit these problems, even with the new TSR's. I have kludged around the problem by killing all my TSR's with a batch file before starting Reflex 2.0, the reloading them upon exiting Reflex. That brings up another strange phenomenon. I can kill the TSR's with a batch file, then start Reflex with another batch file (which reloads the TSR's automatically after exiting Reflex), but I can't combine the two batch files into one! Reflex 2.0 will not start successfully if the batch file looks like this:

```
C:\REFLEX2\GOFLEX.BAT
CD\
SKC /U          *kills Sidekick*
cruise /x      *kills cruise control*
key /k         *kills Superkey*
cd\reflex2
reflex
loadtsr        *batch file to reload tsr's
```

Reflex will start if I break the batch file up into:

```
C:\REFLEX\GOFLEX.BAT
cd\
skc /u
cruise /x
key /k
cd\Reflex2
ECHO TYPE GO to START REFLEX
```

```
C:\REFLEX2\GO.BAT
reflex
loadtsr
```

GOFLEX.BAT is started by a Superkey macro, so there are not a lot of keystrokes involved, but the problem is perplexing. Is there anyone else in H/Z land that has experienced (and hopefully solved) this problem? Incidentally, XTREE 2.0 also will not work with Superkey 1.58a, but will start with a single batch file to unload and reload TSR's, so why won't Reflex? Otherwise, Reflex 2.0 is a dynamite program - a lot faster, more powerful and even easier to use than version 1. End of file.

Editors note: I also have an ICBTIPS program which I cannot run from a batch file. It seems like control is not returned to the batch file, or it goes to fast or something. I do part of it with a batch on the autoexec.bat (load the summasketch driver). Then when I

change drives to where ICBTIPS is, I execute another file which sets the DOS parameters for the ICBTIPS board. I cannot then bring up ICBTIPS from the batch file, but must wait until everything is done, then type it in manually. I have been working with this for years, and have tried every possible combination, and I still have not gotten it to be totally automatic.

I would first suggest trying this whole mess on a non-H/Z computer to see if it works there. Then you can at least know if it is a machine (BIOS) problem or a software problem! If that works, I would try it on you -151 again, but this time being certain you have the latest ROM version. If this does no good, I would try removing the memory PAL and perhaps reduce it to 320K, or doing that and installing another Heath board to get 640K. I have already heard reports of problems concerning some software and some manufactures memory PAL schemes in their systems. Then if you have EGA, it may be having a RAM conflict with the 704K? And lastly, I would remove Wildfire, and try it.

I believe that Reflex, Superkey and Sidekick are all Borland products, so I doubt very strongly if a software compatibility problem exists. I would guess a hardware problem. I hope you have upgraded your monitor ROM to the latest level. I don't understand ROM 3.0B, as I only deal in Zenith part numbers. If it helps any, the current level monitor ROM in the Z151 is a -18. You have a 444-260-18 and a 444-229-16 (I think those are the correct numbers, but I do know the -18 is correct).

8-BIT MODEM PROGRAMS

Taken from the SEBHC Journal, Volume IV, is some information for you H8/H/Z89/90-ers looking for a good modem program for your computer. This excerpt was written by A. Stapher, Chief Editorial Assistant:

A couple months back Darrell Pelan of Micronics Technology sent us two disks containing his new H89 Modem Program, **MT MODEM**. We've never been satisfied with HUG's MAPLE program documentation, so we immediately checked out both MT discs on CompuServe (CIS). To our joy, both HDOS and CPM versions ran identically well! They are oblivious to most Hayes-type modem commands. We didn't have a chance to check out how they handle file transfers, but they both have buffer capacity of about 32,000 bits (roughly 4 text pages). MT Modem isn't yet complete, so we didn't try anything fancy with it. But we feel there should be some kind of non-destructive on-screen "help" file included in this program... This program is expected to sell for about \$18, either in HDOS or CPM version. Contact Darrell Pelan at (205) 244-1597 M-F, 9am-5PM Eastern Time.

MISCELLANEOUS BITS

* I learned something very interesting from the folks at Tripp Lite. These are the manufacturers of the ISOBAR surge suppressor protector units that we sell. They have a **Gold Seal Warranty on their Isobar units**. It's the Lifetime warranty policy. If you purchase and use an Isobar on your computer equipment, you are totally covered. If the ISOBAR should ever fail, it will be replaced free of charge. Not only that, but **if a surge damages your equipment, they will pay for the repairs** (up to \$10,000) for their lifetime!

Now that's quite a deal. Even if you get a direct lightning hit that blows up your computer, it will be covered. With that kind of warranty, who can afford not to have an Isobar?

* For those of you looking for **WordStar CPM** for your H8/H89, I understand that Micropro (don't have their address info) has a version 4 they sell for \$89. Perhaps somebody can supply us with an address and phone number. I believe it was printed in this newsletter previously.

* The Chips and Technologies VLSI SCAT (Single Chip AT system controller) provides the capability for a PC maker to build a 286 AT computer with just 14 chips on the motherboard. Their last major product was the NEAT (New Enhanced AT) chip set, a four-chip design for 12 and 16Mhz systems is the building block of the Zenith SupersPort 286 laptop.

* 30 years to be granted a patent? It seems that **Texas Instrument was finally awarded a patent on the basic semiconductor technology developed in the late '50s.** Ironically, this patent was awarded in Japan, and it allows TI to collect royalties from Japanese chip makers for any chip sold in Japan. Could be worth a half billion dollars!

* Regarding a **LIM board for Z151s.** (H-SCOOP 117, Pg. 3) I'm using a **JRAM3** from Tall Tree in my Z151 along with Dante's 8MHz speed up. Works very well. It's LIM 3.2 not 4 and the company has no plans for 4. (The company is **not** user friendly). I had lots of compatibility problems with earlier H/Z ROM versions, but none at all with versions past 13 or 14 (I use 16 now). I tried numerous software packages (Lotus etc.). All seem to work as promised. Frank Clark/ Univ. of NE Medical Center/ 42nd & Dewey Ave./ Omaha, NE 68105-1065

* I noticed that The Software Toolworks was handling the DS software line. I spoke to someone there and was informed that The Software Toolworks has merged with Design Software. If you can recall, we mentioned several times here about the backup software that DS Software has. They even had a version for the Z100 which we did a complete report on earlier.

VENDORS

Note: All items for submission must contain the vendor or individual's name, address and phone number for consideration of inclusion in this column. All announcements must be kept short and to the point. The smaller the end user's need or desire for a product being mentioned, the shorter the announcement must be. Any lengthy announcements will no longer be considered for editing.

Please note that H-SCOOP is a separate entity from QUIKDATA, Inc. Products mentioned in H-SCOOP are only carried by Quikdata if specifically mentioned.

SOFTWARE RELATED

Software Applications of Wichita is now accepting orders for TaxAide for your 1989 federal income tax return. TaxAide is a package of income tax preparation worksheets for use with Lotus 1-2-3. TaxAide produces IRS approved print-outs with no special forms to buy. It is easy to use and menu driven with screen displays that resemble actual IRS forms.

TaxAide provides worksheets for Forms 1040, 2106, 2119, 2210 2441, 3800, 3903, 4562, 6251, 8615 and 8814; Schedules A, B, C, D, E, F, R, and SE; plus most IRS worksheets. Multiple Forms 2106 and 4562 and Schedules C and SE are provided. The cost is just \$49.95.

TaxAide requires a minimum of 448K of RAM for Lotus 1-2-3 Release 1A using DOS2.xx, 512K of RAM for Lotus 1-2-3 Release 2 using DOS 3.xx, and 1MB of RAM for Lotus 1-2-3 Release 3 using DOS.

To order, send your check to: Software Applications of Wichita/ 2204 Winstead Circle/ Wichita, KS 67226-1122. KS residents add 5 1/4% sales tax. 3 1/2 disks add \$3.00. For VISA or MasterCard orders, call: (316) 684-0304.

REQUESTS

* I have a Z-171 Zenith portable PC computer expanded to 640K. The lunch bucket style. I am looking for hardware that is compatible with the Z-171. It has an EXTERNAL EXPANSION BUS PORT and I am wondering what current upgrade accessories are available for this port.

I am particularly interested in: an expansion chassis to take standard cards etc., or an expansion chassis with winchester storage (hard disk) capabilities, external or internal. Send information to: Larry Verheyden/ B.P. 76 Postes Francaises/ Andorra La Vella Principat D'Andorra/ Europe Via France

If you have any information on other products compatible with my computer, please send also. Larry Vanheyden

Editors note: I forwarded Larry the phone number of Serendipity Associates (602-938-3729) who I believe carry a hard drive for the Z171. That's about all that I know of. If anybody else has info on third party items available for the Z171, either send it to me and I'll publish it, or contact Larry.

* I followed up on your mention in the December issue of H-SCOOP of the Weltec PHD portable hard disk for laptop computers by requesting literature on their units. Enclosed is what they sent me. I was told that their list price of \$1,099.00 is heavily discounted by mail order suppliers. I confirmed this when I was quoted \$699.00 by J & R Music World/ Department 8906/ 59-50 Queens-Midtown Expressway/ Maspeth, NY 11378-9896/ phone 1-800-221-8180.

What would be the effect on access time of a serial port connection? I hope someone with experience with this drive responds to your request. Nord Holte/ 310 West 49th St/ Kansas City, MO 64112/ (816) 753-1824.

Editors note: I printed the information about this product last month, and thus far nobody has contacted me saying they have tried this. I'm still waiting.

QUIKSTOR/SUPERSET ROM

John Turley owns a Quikstor hard disk system for his H89, and recently added the TMSI Superset modification (which is not compatible with the Quikstor). Lee Hart sends this information as a way to make the Quikstor work with his Superset. Although a bit of a kludge, it does work. The remainder is quoted from Lee's response to the problem:

Dean Gibson used as auto-baud rate routine in several programs he wrote, including the Ultimeth ROMs, Kres ROMs, and Quikstor boot code. The method is not compatible with any upgraded terminal ROMs, whether Ultra-ROM, Super-19, HUG/Watzman, or Superset. It sends commands at the wrong baud rate, and depends on the terminal's response to them.

I don't have any of Dean's products, so I can't analyze and fix the problem right. But there are a couple of work-arounds. One is to set your DIP switches to auto-boot from a particular Winchester boot partition. This way, Dean's code never gets used and everything works normally.

The other solution is a special Superset program ROM, with both stock H19 and Superset code. I have enclosed a copy of this ROM. You use it with an external 2-pole 2-position switch to control pin 26 of the Superset program ROM. When pin 26 is LOW, you have a totally stock H19; when pin 26 is high, you have a Superset.

1. Remove the old Superset program ROM, and return it to me for recycling. (There's a \$10 charge for replacement ROMs if I don't get the old ones back).

2. Install the special Superset program ROM in its place. Be sure pin 26 does not enter or touch the socket.

3. Get a 2-pole 2-position switch. Mount it so you can control it from outside the case. A miniature toggle switch is convenient, as it can be mounted on the terminal logic board's heatsink so the toggle sticks up through the ventilation slots.

4. Wire the switch as shown in the enclosed circuit diagram.

With the switch closed (both sections), you have a normal H19, and the Quikstor will boot. Once booted, flip the switch to the open position, and type the right-SHIFT and RESET keys. This resets the terminal, and switches to Superset mode. Since the reset line is broken by the switch, right-shift+reset only resets the terminal, not the computer. Lee Hart for TMSI/ 28612 Middle Crossing Road/ Dowagiac, MI 49047/ (616) 782-3980

PEEKING/POKING

DON'T LET THE WIFE IN THE DARK

I came across a thought provoking editorial recently in the SEBHC Journal, and felt it was worth repeating here.

LOOKIT WHUT I DONE DID! (Taken from SEBHC Journal, Vol. IV, #2, Pg.6 by Leonard E. Geisler. Write a CP/M SUBMIT FILE and SAVE A HARRIED SOUL!

The wife of a suddenly-deceased, former member of the defunct A*SQR*HUG (Ann Arbor HUG) has been depending on me for lots of technical support for somewhat more than a year. She and her husband were fairly high-level Amway products distributors. When he died, her husband left her with an H89 which was verging upon self-destructing, absolutely NO working knowledge of the computer, and several thousand dollars worth of unfilled orders awaiting processing! He did leave scads of scribbled fragmentary notes, but they weren't in any logical order. Some even dated back five years or more! You can imagine the tremendously-ugly chore staring her in the face, not to mention her emotional state of mind!

Moral: Even if you don't expect to die in the very near future, at least prepare a brief set of operating notes for your survivor(s) use! And inscribe on its' first page in BIG scarlet letters: "DO NOT LET ANY IBM COMPUTER USER WITHIN 100 MILES OF THIS H/Z MACHINE, OR EVEN TELL THEM ABOUT IT!" This may prevent some well-meaning but highly ignorant sixteen-bit "computer expert" from trying to help by "resetting" the H89 while it's running a program (and not printing on-screen) by switching off the A-C power. Imagine what that did to this poor lady's working discs and files, and her composure!

Having put in a full three months on getting this lady's machine back into proper operating condition, I've spent a similar amount in learning how to run that gosh-awful bug-filled "proprietary" Amway accounting software. It had been written in an obscure CP/M BASIC dialect, then COMPILED! As her original working discs had been trashed, I had to buy a copy of ANAPRO's EMULATE program so I could convert Amway's Magnolia-format CP/M distribution discs to run under Heath's CP/M. Eventually I developed a vague idea of what the programs did, but not the how or why of them. And the software manual was absolutely NO help whatever (it was written by a programmer for other programmers).

Computer finally up and running, the lady's business needed tending to. There I couldn't help, except when the computer

appeared to hang up. Then I'd dash over to the south side of town, spend an hour or two getting the machine to acknowledge that I knew how to make it run, then persuade it's owner it was safe to resume work. Often I'd stay a while, watching machine and operator function until I was satisfied everything was back on a reasonably even keel.

Every time I went on one of these calls, I'd leave a fresh set of operating instructions written in the plainest English I know. This would serve her until work began to dangerously pile up, then she'd have a part-time "computer literate" girl come in and help out. Usually the part-timer did a good job, but occasionally she and the computer would fly into a snit. Usually I could talk her through them over the phone.

Eventually these ladies became comfortable with the H89, but at every month's end, Amway's miserably-slow software would take more than SIX HOURS to close out all accounts and transfer records! I replaced her Heath CPU with a D-G Electronics Super89 CPU set to run at 4MHz clock speed. This has greatly reduced close-out time, but next the part-timer gets a new job, so we're back almost to square one.

The lady's husband had regularly backed up his Amway data discs at month's end - it was easy because she'd be taking care of other tasks. Now she continues to back up files every month, but she's usually doing twenty different jobs simultaneously. It's easy for her to get rattled and sometimes miss a step or two which often results in chaos! When it comes to running the backup procedure, the slightest "operation malfunction" means Terminal Disaster!

To get around this roadblock, I wrote a simple one-screen set of plain-English instructions and saved it on her system disc (internal drive A:). Then I ran D-G's CONFIG80 and set warm boot AUTO to TYPE the file AMWAY.TXT. Now, whenever she boots the internal drive, she immediately sees the not-easy-to-avoid message telling her, "Remove all discs from both external drives, insert a blank disc in B:, the data disc in C:, then enter EX AMWAY<cr>". This loads EX.COM which reads AMWAY.SUB and automatically runs this 6-line CP/M submit file (which virtually eliminates her "backup blahs").

Editors note: I have heard of many similar cases in my time working with computers. If you are using your computer in a business which depends on more than just yourself cue somebody in and save a similar situation from happening. Hmmm, that reminds me. I have about 90 megs of stuff on my system which runs this entire business. And only I know anything about any of it!

QBBS

This column which will be printed from time to time will contain messages from our Quikdata Bulletin Board System, a TBBS system, which were left from readers and customers. When some important information is on the board and perhaps relevant answers appear, we will print them in this section.

Msg#: 913 *BULLETIN BOARD*
11-26-89 08:40:27 (Read 31 Times)
From: STEPHEN SOUTHWICK

To: ALL
Subj: HUGPBBS

I recently purchased the bulletin board program HUGPBBS from HUG. I have been having trouble getting it to work. It wouldn't work on an internal modem, then when I put an external modem on it, it would answer, then promptly hang up. It gave no message just hung up. If anyone has any experience on this program and has any ideas I would be interested in some help. Thanks, Steve

[if anyone can help Steve, send response to H-SCOOP]

Msg#: 927 *MSG TO SYSOP*
12-03-89 08:05:47 (Read 3 Times)
From: RONALD PANNATONI
To: SYSOP (Rcvd)
Subj: REPLY TO MSG #918 (SOTA 386SI)
Dear Henry:

As I pointed out in my first message to you regarding the SOTA 386si board, SOTA technicians advised me that the Z151 ROM's must be revision -16 or higher in order for their board to be compatible with the BIOS. I ordered the ROM's from Heath parts department three weeks ago. They arrived on Wednesday, and I installed them yesterday. My Z151 is working with them, so I am apparently ready to try the SOTA board in it.

Thank you for clarifying your policy about the restocking fee. Your "money-back guarantee" is acceptable to me but for one point. Could you give me 14 days, instead of the usual 10 days, to try the board? I am asking this favor in the wake of my experience with another add-on board, the Hercules RAM-Font board (which I special-ordered from QUIKDATA two years ago).

After this board was in my computer, I found that my printer would not work when it was connected to the parallel output on the Hercules board. Since my printer did work when it was connected to the parallel connector on the Z151 memory board, I assumed that the Hercules board was faulty and got in touch with the Hercules company. Their technician suggested two possible causes of the problem: a faulty I/O chip on the board, or the printer cable. My printer cable was thirteen feet long; I had made it myself. The technician explained that their I/O chip was a CMOS device and might not be powerful enough to drive the printer over this length of cable. He arranged to have another I/O chip and a six foot cable sent to me. The problem was indeed with the cable length. I returned the I/O chip to Hercules, and they let me keep the short cable. This exchange took two weeks.

Msg#: 931 *MAIL*
12-04-89 10:50:38
From: BRIAN HANSEN
To: SYSOP (Rcvd)
Subj: ROMS THOUGHTS

More thoughts on the ZDS ROM return mistake [on ZDSs part]. If one wanted to steal ZDS ROM Code returning the old one would not stop anything. For around \$129 a PC Compatible ROM programmer accessory can be purchased. Then the new rom can be copied to a disk file and then put into the computer and the old ones can be also copied to disk. The old one can then be returned to ZDS!!! Then both the old and new versions are achieved to a disk file and only the poor ZDS Dealer has to hassle with the paperwork. How about the person who uses the computer and can't keep it out of service. I have read about new roms not working with older versions of software and the old roms having to be reused until an updated version can be obtained from the software company. If the old rom has to be returned does this mean someone has to make a choice of not using a program [maybe used for a business and very NECESSARY!!] and keeping the new rom or shelling out an extra \$100 to have the permission of ZDS to keep the old one so that a business can continue to run while the updated software can be obtained!??

Msg#: 935 *MAIL*
12-05-89 10:11:48
From: BRIAN HANSEN
To: HENRY FALE (Rcvd)
Subj: REPLY TO MSG# 931 (ROMS THOUGHTS)
Henry 1 more thought. I found a fellow Service Manual user complaining about the new cost of manuals. He was looking for the Z100 series and was told \$125 for the main manual and \$100 for the new motherboard update. I have the update and it works out to >\$8.00 a page. Yes the update is 12 pages long!!!! Nice way to get your losses cut back of course lots of ZDS Supporters will be dropping out. I can't see paying a premium for a computer

now that many mail order companies sell so much less. Now some are also giving 1 year warranties and some even on site service from of all companies Honneywell Bull (YES the new owner of ZDS) HA HA HA!!!

Msg#: 941 *BULLETIN BOARD*
12-09-89 07:54:29 (Read 27 Times)
From: JEFF MARTINO
To: ALL

Subj: EXPANDED Z-148 + VGA ?
I just installed a FBE 1.5 slot expansion daughterboard in my Z-148 and plan to put a graphics expansion card (perhaps an ATI VGA Wonder + mouse) in the full-sized slot. I'm sure that I have read that the on-board video must be disabled in some Heath/Zenith PCs in order to use a graphics card. Is this true for the Z-148? If so exactly what has to be done?
Thanks for any help you can give me. --Jeff Martino

[I left Jeff a message that a jumper must be cut on the Z-148 main board, and I believe a switch must be changed. I do not have a Z148 manual. Anybody can shed some particulars on this?]

Msg#: 952 *BULLETIN BOARD*
12-14-89 20:03:09 (Read 16 Times)
From: BRIAN HANSEN
To: ALL

Subj: Z22 TERMINAL HELP
My latest HUGBB Bargain Center purchase arrived today and I need some help in getting it going. I now own a ZDS Z22 Green Screen Terminal and I have no instructions or Keyboard for it. The keyboard uses a Modular Phone connector. Can anyone supply me with any information on this units keyboard and its operating instructions. It signs on with a keyboard not connected message so I feel that it is configured by keyboard commands or function keys. Thanks in advance. Brian

QUIKDATA BITS

Printed here are the latest products added to our line, price changes, etc. Keep this with your 9/89 catalog for a reference.

PRICE CHANGES

MEMORY PRICES ARE STABLE! (pg 23)

M256-15 - \$2.75
M256-12 - \$2.95
M256-10 - \$3.29
M256-08 - \$3.95

Z159 EMS UPGRADE (pg 3) was \$159 now \$79. Includes PAL, logic chips and one bank (9) of 256K chips. Up to two banks (18) can be added for a total of 1.2 megs of memory for the Z159.

Z605-1 2MB RAM upgrade for Z248/12 computer (page 6) reduced to \$295.

80287-10 coprocessor (pg 23) increased to \$259

NEW COMPUTER PRICING

Zenith has dropped prices on many of their computers, and we pass this along to you.

SupersPort 8088 **Z184-1** Laptop dual 3.5" drives \$1445 (pg 4)
SupersPort 8088 **Z184-2** Laptop 20mb hard disk \$2145 (pg 4)

SupersPort 286 Laptop **SS286-20** 20mb hard drive - \$2795 (pg 4)
SupersPort 286 Laptop **SS286-40** 40mb hard drive - \$3195 (pg 4)

Z248/12 80286 1.2mb floppy, 1MB RAM, HD/FPY controller, no video

Z24812S1 - \$1495 Basic system, no video or hard drive (pg 5)
Z24812S2 - \$2049 EGA video, ST-251 42 MB hard drive (pg 5)
Z24812S3 - \$2295 EGA video, 80MB 28ms ST-4096 (pg 6 top)

ZENITH Z386 16MHZ IS DISCONTINUED, 20MHZ MODEL REPLACES IT

ADDED: Z38620S1 20Mhz Z386 1MB RAM (expandable to 8MB on main board), 3.5" 1.4mb floppy, ESDI controller with 1:1 interleave, two serial ports, one parallel port. No video.
Z38620S1 - \$2895 Base system (pg 6)

Z386 25MHZ SYSTEM with 2MB RAM, ESDI controller, no video. Base system.
Z38625S1 - \$3999 (pg 6)

Z386 33MHZ SYSTEM with 2MB RAM, 1.4 MB 3.5" floppy, ESDI controller, two serial ports, one parallel port, no video.
Z38633S1 - \$4895 Base system (pg 6)

LAPTOP EXPANSION CHASSIS EA3034 has been replaced by EA3040, a new and improved model. Price is \$395 which includes computer interconnect cable (specify which laptop).

ZA180-73 Internal laptop cable for expansion chassis for SupersPort 184 and 286 models. Requires service center installation if warranty is not to be voided. \$59

ZCM-1490 flat screen VGA monitor replaced by lighter **ZCM-1492** and reduced to \$669 (pg 25).

SOTA 286i 12Mhz Accelerator card for PC/XT (page 9) reduced to \$295

SOTA 386i SX Accelerator card For PC/XT (page 9) reduced to \$396

SOTA 16i MEMORY expansion for 286i and 386i will be available in January.

PANASONIC KXP-1124 NARROW CARRIAGE 24-PIN (pg 26) printer reduced to \$329.

PGVA-16 - \$249 Paradise 16-bit VGA 256K card (pg 26)

PVGAPLUS - \$195 Paradise VGA Plus 8-bit video card (pg 26)

TM-248/SM-248 - \$59 Service manual for Z246/286. Price good until supply gone. Zenith just raised all their prices to \$125 for all service manuals. (pg 7)

DJ10 TAPEBACK unit reduced to \$329 (pg 11).

ZOOM HALF CARD 2400 BAUD INTERNAL PC MODEM
ZOOMHC24 - \$119 (pg 24) price reduction

MEDIA MASTER price increase

MM150 - \$45 (pg 12)

MM100 - \$45 (pg 17)

NORTON UTILITIES ADVANCED EDITION price increase
NORTON - \$99 (pg 11-12)

SPINRITE (pg 12) has increased in price to \$85, but is not Spinrite II. It now handles partitions larger than 32 megs, is easier to use, and can be run without booting off the disk to setup. Worth the extra bucks.

PRODUCT ADDITIONS

80387SX-16 16Mhz coprocessor for 386 SX systems - \$329

DICONIX PLUS portable battery operated ink jet printer reduces the Diconix 150 (pg 27). Similar to the 150, but slightly faster. Same price of \$359.

PANASONIC KXP-1624 24-pin wide carriage 192 cps dot matrix printer is similar to KXP-1124 in features. EZ Set operator panel

lets you control the most often changed printer features and lets you save and recall these features for up to three different applications. Offers 7 resident fonts, including 2 draft and 5 letter quality including proportional spacing. Over 5500 type styles. Top and bottom, rear and front paper feed paths and a push/pull flat belt tractor. Printing sizes 5 to 20 cpi. Bit image matrix of 360 x 360 dots per inch. Emulates Epson LQ-2500 and IBM Proprinter XL24. Parallel interface standard, 2 year warranty.
KXP-1624 - \$469.

KXP-155 Black ribbon for KXP-1624 printer \$8.49

CITIZENS HSP 550 wide carriage 300cps printer with parallel interface, push/pull tractor, top, rear or bottom paper feed. 8K buffer. Epson FX/EX and IBM Proprinter XL emulation. Includes Color-on-command, which makes upgrading to color later inexpensive.
HSP-550 - \$479

H550R - \$4.89 Black ribbon for Citizens HSP-550 printer

MONOCHROME GRAPHICS PRINTER CARD Half-card MDA/Hercules monochrome video card (TTL) with a parallel printer port.
MGP - \$59

NEED RELIABLE LOW COST EMS MEMORY? We now have the BOCARAM XT EMS card and the EVEREX MAXMAGIC EMS card. Both for PC/XT computers and will add up to 2 megabytes of EMS memory to a PC/XT computer. Will also work in AT computers, but only has 8-bit bus. Uses standard 256K DRAM chips. Supports DOS and LIM EMS 4.0. RAMdisk and print spooler utilities (page 10).
BOCARAM - \$139
MAXMAGIC - \$95

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H-SCOOP/QUIKDATA

2618 Penn Cir.
Sheboygan, WI 53081-4250
(414) 452-4172
(414) 452-4344 Fax line

(414) 452-4345 Bulletin Board: 300/1200/2400/9600 (Hayes) auto-baud recognition. Character width of 10 which includes start bit, 8 data bits (7 for ASCII character + 1 parity), and one stop bit. The parity can be omitted and then transmission of graphics and binary data is possible. 8 data bits allows secure error-checking data transfer methods such as XMODEM and YMODEM to be used.

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